

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (original): A camera comprising:

a camera lens;

acquisition circuitry receiving images via said camera lens, for acquiring a first field of view when said camera lens is in a first orientation and for acquiring a second field of view when said camera lens is in a second orientation; and

a viewfinder displaying the second field of view when said camera lens is in the second orientation and displaying at least a portion of the first field of view at least partially composited with the second field of view.

Claim 2 (original): The camera of claim 1 wherein the second field of view at least partially overlaps the first field of view.

Claim 3 (original): The camera of claim 1 wherein a size of the at least a portion of the first field of view is prescribed.

Claim 4 (original): The camera of claim 3 wherein the size of the at least a portion of the first field of view is prescribed relative to a size of the first field of view.

Claim 5 (original): The camera of claim 3 wherein the size of the at least a portion of the first field of view is prescribed relative to a size of the second field of view.

Claim 6 (original): The camera of claim 5 wherein the size of the at least a portion of the first field of view is its width, and the size of the second field of view is its width.

Claim 7 (original): The camera of claim 5 wherein the size of the at least a portion of the first field of view is its height, and the size of the second field of view is its height.

Claim 8 (original): The camera of claim 5 wherein the size of the at least a portion of the first field of view is the field of view angle it subtends, and the size of the second field of view is the field of view angle it subtends.

Claim 9 (original): The camera of claim 5 wherein the size of the at least a portion of the first field of view is prescribed to an amount between 20% and 40% of the size of the second field of view.

Claim 10 (original): The camera of claim 1 wherein the at least a portion of the first field of view is composited with the second field of view by an opacity of approximately 50%.

Claim 11 (original): The camera of claim 1 wherein the at least a portion of the first field of view is composited with the second field of view by an opacity of approximately 100%.

Claim 12 (original): The camera of claim 1 wherein the focus of said camera lens is not changed during acquisition of the first and second fields of view.

Claim 13 (original): The camera of claim 1 further comprising a lens focus lock for locking the focus of said camera lens during acquisition of the first and second fields of view.

Claim 14 (original): The camera of claim 1 further comprising combining circuitry for combining the first and second fields of view.

Claim 15 (original): The camera of claim 14 wherein the first and second fields of view are portions of a scene and wherein said combining circuitry combines the first and second fields of view into a panoramic image of the scene.

Claim 16 (original): The camera of claim 15 wherein said panoramic image has a cylindrical geometry.

Claim 17 (original): The camera of claim 16 further comprising rectilinear-to-cylindrical conversion circuitry for converting the first and second fields of view from rectilinear coordinates to cylindrical coordinates.

Claim 18 (original): The camera of claim 15 wherein said panoramic image has a spherical geometry.

Claim 19 (original): The camera of claim 15 further comprising rectilinear-to-spherical conversion circuitry for converting the first and second fields of view from rectilinear coordinates to spherical coordinates.

Claim 20 (original): The camera of claim 15 further comprising view control circuitry for selecting a portion of the panoramic image to display, and wherein said viewfinder displays the selected portion of the panoramic image.

Claim 21 (original): The camera of claim 20 wherein said panoramic image has a cylindrical geometry and further comprising cylindrical-to-rectilinear conversion circuitry for converting the selected portion of the panoramic image from cylindrical coordinates to rectilinear coordinates.

Claim 22 (original): The camera of claim 20 wherein said panoramic image has a spherical geometry and further comprising spherical-to-rectilinear conversion circuitry for converting the selected portion of the panoramic image from spherical coordinates to rectilinear coordinates.

Claim 23 (original): The camera of claim 1 wherein said acquisition circuitry acquires at least one additional field of view with said camera lens being in at least one additional orientation, and wherein said viewfinder displays an additional field of view of said camera lens when said camera lens is in each additional orientation and displays at least a portion of at least one previously acquired field of view at least partially composited with the additional field of view.

Claim 24 (original): The camera of claim 23 wherein each additional field of view at least partially overlaps the at least one previously acquired field of view.

Claim 25 (original): The camera of claim 23 wherein the at least a portion of the at least one previously acquired field of view is composited with the additional field of view by an opacity of approximately 50%.

Claim 26 (original): The camera of claim 23 wherein the at least a portion of the at least one previously acquired field of view is composited with the additional field of view by an opacity of approximately 100%.

Claim 27 (original): The camera of claim 23 wherein the focus of said camera lens is unchanged during acquisition of the first and second and the at least one additional fields of view.

Claim 28 (original): The camera of claim 23 further comprising a lens focus lock for locking the focus of said camera lens during acquisition of the first and second and the at least one additional fields of view.

Claim 29 (original): The camera of claim 23 further comprising combining circuitry for combining the first and second and the at least one additional fields of view.

Claim 30 (original): The camera of claim 29 wherein the first and second and the at least one additional fields of view are portions of a scene and wherein said combining circuitry combines the first and second and the at least one additional fields of view into a panoramic image of the scene.

Claim 31 (original): The camera of claim 1 further comprising perspective conversion circuitry for converting a perspective of the at least a portion of the first field of view from the first orientation to the second orientation.

Claim 32 (original): The camera of claim 31 wherein said perspective conversion circuitry includes line processing circuitry for determining modified color values at pixel locations within vertical lines of the converted at least a portion of the first field of view.

Claim 33 (original): The camera of claim 32 wherein said line processing circuitry determines modified color values at pixel locations within vertical lines of the converted at least a portion of the first field of view based on unmodified color values at a corresponding vertical line of the at least a portion of the first field of view.

Claim 34 (original): The camera of claim 32 wherein said line processing circuitry rescales vertical lines of the at least a portion of the first field of view.

Claim 35 (original): The camera of claim 1 further comprising an indicator indicating when said camera lens is in the second orientation.

Claim 36 (original): The camera of claim 35 wherein said indicator is a light.

Claim 37 (original): The camera of claim 35 wherein said indicator is a beeper.

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Claims 38-122 (canceled)